PART FOUR-FOUR PAGES

WASHINGTON, D. C., SUNDAY MORNING, MARCH 18, 1917.

Farm Your Back Yard and Reduce High Cost of Living

ARM your backyard and help reduce the high cost of living" is the slogan of the Department of Agriculture. farming and is sending broadcast through the country bulletins in order the people and induce them to take a chance in home and vacant-lot garmost logical solutions of the serious problem of the high price of food confronting all classes of society, but

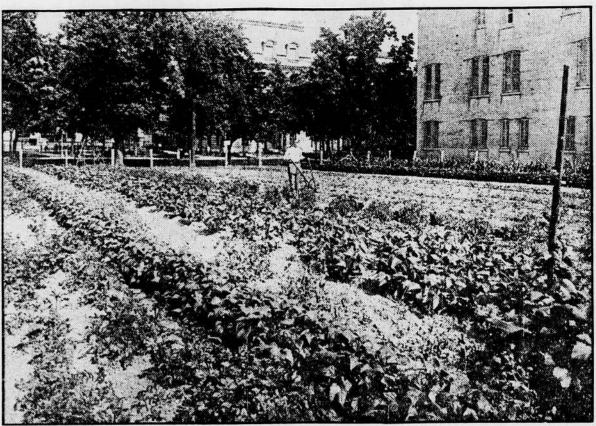
The department has undertaken this the standpoint of the growing scarcity of food supplies, the rapid advance in

salary and large family.

prices and the difficulties of transportation, but for more patriotic reasons, believing that it has a bearing on national preparedness; if the country should become involved in war the necessity for harboring every resource would be more easily met.

In a recent speech before a meeting of the Federation of Women's Clubs in the District, Carl Vrooman, assistant secretary of agriculture, asked his audience if they had thought of what the price of food would be in the event of the United States going to war and the government commandeering all transportation and taking over the food supply for the army. Mr. Vrooman said: "As a matter of food preparedness, as well as economy, I urge you to utilize the vacant acres for farming purposes. Make each region agriculturally independent. It can be down with result."

land to help themselves. He cited several cities where city farming had been adopted a few years are on an where all the several cities where city farming had been adopted a few years are on an other cities of food which exceeded those commanded by the same commodities in some of the waring countries of Europe. When Albassador will be under the shadow of the same price are bringing in Gertall, that they were bringing in Ge



USING THE HAND PLOW IN A CITY GARDEN.



This Country May Produce Its Own Potash by End of European Struggle

HE total production of potash salts and potash products in the United States in
1916 was nearly 10,000 tons,
ith a net value of at least \$3,500,000.

with a net value of at least \$3,500,000. Indeed with the bureau of mines.

This is ten times the value of the production reported in 1915, and the total for the current year is expected to be much greater."

This paragraph, taken from a recent bulletin of the geological survey, is an excellent illustration of the manner in which American genius and inventive skill has stepped into the breach since the commencement of the commencement of the commencement of the shinch as increased in price tenfold since August, 1914.

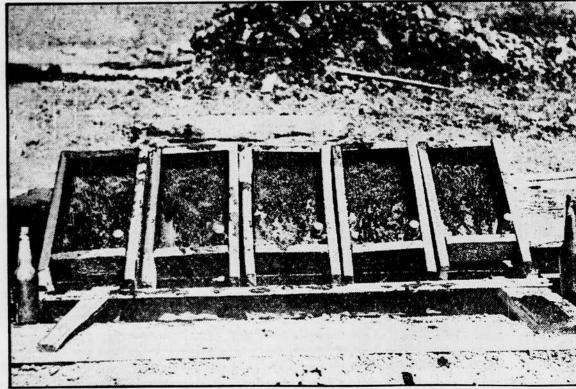
Prior to the commencement of the war abroad practically all of our potash was imported from Germany at a cost.

G. Cottrell, one of the scientists connected with the bureau of mines.

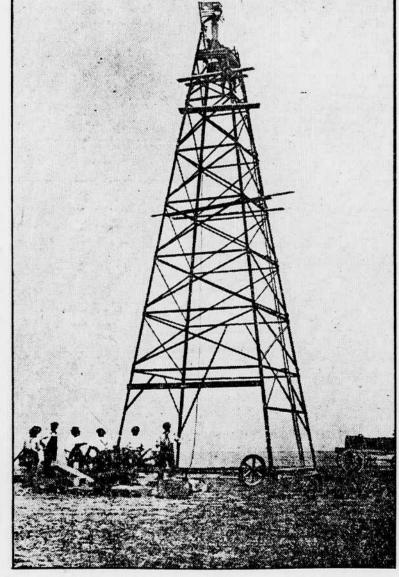
Some years ago Dr. Cottrell turned his attention to the abatement of the bastement of the abstement of the abatement of the same dust nuisances which were causing so much trouble in different parts of the country. After long and experimenting, Dr. Cottrell devised an electrical apparatus for condensing the smoke, fumes and manufacturing plants of all kinds, and he discovered that the residue contained considerable quantities of sulphuric acid and other was found to contain a high percentage of potash:

The surprising result was that the new process not only eliminated every but of the dust fumes, but also gave the cement people a product, formerly wasted by distribution upon the surrounding country, which was found ensuing the smoke, fumes and discovered that the residue contained considerable quantities of sulphuric acid and other valuable by-products which were being wasted, in addition to causing much inconvenience to the surrounding country. With a single operation, therefore, the government chemists enabled the same time to abate a nuisance which causing so much trouble in different parts of the country. After long and the courtent was that the Cottrell process was installed.

The surprising result was that the Cottrell process on on only eliminated every but of the surprising result was custing of the country. A



THE POTASH-RICH MUD AS PT IS SECURED BY THE GEOLOGICAL SURVEY.



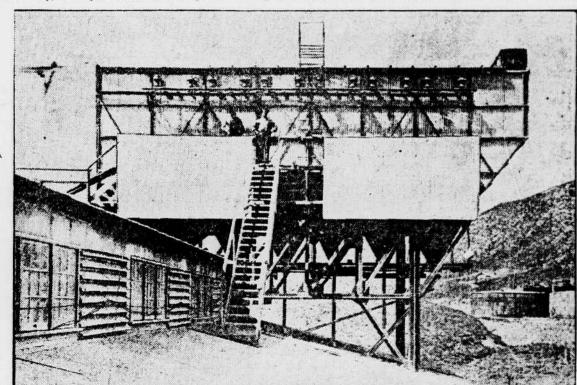
NAILING THE FLAG TO A NEW POTASH SHAFT, SUNK BY THE GOVERNMENT.

enough thoroughly to arouse the cement manufacturers of the country to its importance. The character and local distribution of this industry is such as to insure a quite general adoption of the potash by-product feature wherever feasible and advantageous. It also seems probable that in the location of new cement mills the matter of the potash content of the raw materials of the seems probable that in the location of new cement mills the matter of the potash content of the raw materials will come to be one of the normal determining features.

"With regard to potash from the iron blast furnaces less progress has been made, but the bureau's metallurgists believe that there are possibilities there

believe that there are possibilities there quite comparable with those in the cement mills, and have been urging upon those in authority in the industry the importance of not only a careful examination of blast furnace dusts and gases for potash, but likewise the necessity for systematic studies on the effect on operating conditions of the same, with the object of obtaining the maximum possible yield of potash.

"The bureau of mines has so far refrained from attempting to publish actual estimates of what might be produced in this way, since potash has been so



THE PRECIPITATOR THAT SAVED 100 TONS OF POTASH-RICH DUST A DAY.

THE PORNSHARM NULL ST IN SECURD BY THE GOLGGIAN SINGE.

of about \$12 a for. The reason for this of the Cuttrell process—for which is that the world hargest decorate parties, which are all the parties of the cuttrell produced in the third produced in the parties of the cuttrell produced in the parties of the parties